

CHAPPELL CREEK TMDL IMPLEMENTATION PLAN

NARRATIVE PLAN

Chappell Creek was added to the state 303 (d) list based on data collected in July and August of 1993 by personnel from the Town of Trion WPCP. The thirty day geometric mean of 200 cfu/100ml was consistently exceeded in water samples collected upstream of a major spill that occurred on July 16, 1993. These upstream values cannot be attributed to the spill. The model output from the TMDL document shows an estimate for the summer fecal coliform 30-day geometric mean of 630 cfu/100ml. It should be noted that neither the actual summer collected data used to list the stream nor recent data collections reflect values this high. Even as a one-time occurrence, 550 cfu/100ml is the highest value recorded. However, there seems to be a persistent average flow of fecal coliform into Chappell Creek that exceeds the 30-day geometric mean on a regular basis, at least in the downstream reach.

Personnel from Coosa Valley Regional Development Center have led the process to develop this TMDL Implementation Plan for Chappell Creek. The process used involved a preliminary planning meeting with officials from Chattooga County, officials from Town of Trion, and technical experts. A draft plan was developed at this meeting and presented to the public at a public meeting held on February 6, 2001 at the Trion Community Center with 16 people in attendance. This meeting involved presentation of information about the TMDL program in the U.S. and in Georgia, presentation of the draft TMDL implementation plan, and a brainstorming session to gather citizen input.

At the meeting, residents quickly focused on septic systems as a potential source. Apparently, there are currently less than 100 AU of livestock in the watershed. From the attached results of the brainstorming session, it can be seen that participants focused on septic systems and setting up a monitoring program as the primary needs. In fact, the residents present did not list a single idea pertinent to agriculture.

A final draft of the plan was presented at a second meeting held at the Trion Community Center on February 22, 2001 with 11 people in attendance. A Power Point presentation related to BMP's for agriculture, forestry, and residential land uses was also presented.

The implementation plan will focus quickly on monitoring (see attached monitoring plan) and on education relative to septic system regulations, construction, and maintenance. There is also a need to improve the stream buffer below U.S. 27 and along the tributary that runs north along U.S. 27. Another focus of the plan will be to educate landowners in the area about the benefits of buffers and programs to create or improve existing buffers. This will be particularly important if additional livestock are brought into the watershed.

If these education and voluntary measures are inadequate to correct the excessive fecal coliform in the creek by the fourth year of the implementation plan, data collected in the monitoring program should pinpoint those areas and land uses needing additional BMP's. The second phase of the plan will address those areas and land uses in a regulatory phase of the plan.

STATE OF GEORGIA

TMDL IMPLEMENTATION PLAN FOR: Chappell Creek, fecal coliformRIVER BASIN: Coosa River

(STREAM)

(PARAMETER)

PLAN DATE: 12 March, 2001

Prepared by: Coosa Valley RDC Address: P.O. Box 1793 City: Rome State: GA Zip: 30162-1793 Date Submitted to EPD: 12 March, 2001 THIS PLAN WAS UPDATED WITH 604(B) FUNDS IN 2003		Or Prepared By: _____ Address: _____ City: _____ State: _____ Zip: _____ e-mail: _____ Date Submitted to EPD: _____					
General Information		Significant Stakeholders					
Obtain this information from the TMDL document or other information. When completed, this document will be a self-contained report independent of the TMDL document.		Identify local governments, agricultural organizations or significant landholders, commercial forestry organizations, businesses and industries, and local organizations including environmental groups with a major interest in this water body.					
TMDL ID (to be entered by EPD)	CSA0000001	Name/Organization	Chattooga County Jim Parker, Commissioner				
Water body name	Chappell Creek	Address	101 W. Washington St.				
HUC basin name	Coosa	City	Summerville	State	GA	Zip	30747
HUC number	03150105	Phone	(706) 857-0700			e-mail	
Primary county	Chattooga County	Name/Organization	Town of Trion Donny Hayes, Mayor				
Secondary county	Walker County	Address	P.O. Box 850				
Primary RDC	Coosa Valley RDC	City	Trion	State	GA	Zip	30753
Secondary RDC		Phone	(706) 734-2332			e-mail	
Water body location	From: Chattooga/Walker line	Name/Organization	DNR-Wildlife Resources, Noel Holcomb				
	To: Chattooga River (Trion)	Address	2592 Floyd Springs Road				
Miles or area impacted	5103 acres	City	Armuchee	State	GA	Zip	30105
Parameter addressed in plan	Fishing	Phone	(706) 295-6041			e-mail	
Water use classification		Name/Organization	Coosa River Soil and Water Conservation District Jim Parker, District Supervisor				
Degree of impairment	Partially supporting use	Address	700 E. 2 nd Avenue Suite J				
		City	Rome	State	GA	Zip	30161
Date TMDL approved by EPA		Phone	(706) 857-0700			e-mail	
Impairment due to		Name/Organization	Coosa River Basin Initiative				
	Nonpoint sources	Address	408 Broad Street				
		City	Rome,	State	GA	Zip	30161
Point source-Form A; Nonpoint source-Form B; Both-Form A+B+C		Phone	(706)232-2724				

FORM B

SUMMARY OF ALLOCATION MODEL RESULTS FROM TMDL DOCUMENT (existing load, target TMDL, and needed reduction)

EXISTING LOAD	TARGET TMDL	NEEDED REDUCTION
630 cfu/100ml	175 cfu/100ml	455 cfu/100ml

I. IDENTIFY **NONPOINT SOURCE** CATEGORIES AND SUBCATEGORIES OR INDIVIDUAL SOURCES WHICH MUST BE CONTROLLED TO IMPLEMENT LOAD ALLOCATIONS:

List major nonpoint sources contributing to impairment including those identified in TMDL document.

SOURCE	DESCRIPTION OF CONTRIBUTION TO IMPAIRMENT	RECOMMENDED LOAD REDUCTION (FROM TMDL)
Urban	nonpoint	0%
Forest	nonpoint	0%
Agriculture	nonpoint	60%
Urban pervious	Failing septic systems, pets	
Forest pervious	Wildlife	
Urban impervious	Stormwater runoff	

III. DESCRIBE ANY REGULATORY OR VOLUNTARY ACTIONS INCLUDING MANAGEMENT MEASURES OR OTHER CONTROLS BY GOVERNMENTS OR INDIVIDUALS THAT SPECIFICALLY APPLY TO THE POLLUTANT AND THE WATERBODY FOR WHICH THE TMDL WAS WRITTEN, THAT WILL BE ACCOMPLISHED THROUGH RELIABLE AND EFFECTIVE DELIVERY MECHANISMS, AND THAT WILL HELP ACHIEVE THE LOAD ALLOCATIONS IN THE TMDL:

See the attachment for more instructions.

Existing or required regulatory actions

RESPONSIBLE GOVERNMENT, ORGANIZATION OR ENTITY	NAME OF REGULATION/ORDINANCE	DESCRIPTION	ENACTED OR PROJECTED DATE (mm/yy)	STATUS
Chattoga Co. Health Department, Environmental Health Division	Rules and Regulations for On-site Sewage Management	Septic System Code	Latest update Jan- 98	Enforced, State regulations adopted by the Board of Health
EPD	Sediment and Erosion Control	Related to land disturbing activities greater than 5 acres	Revised Jan-01	
Walker County	Phase II: Stormwater Permit	Apply for permit and develop management program	10/3/03	EPD will notify
Town of Trion	Local Ordinance	No raising of livestock in town limits	Enacted	Prevents new operations
Chattooga County	Floodplain Ordinance	No building within a floodplain	Enacted	Enforced on new construction

Existing voluntary actions

RESPONSIBLE ORGANIZATION OR ENTITY	NAME OF ACTION	DESCRIPTION	ENACTED OR PROJECTED DATE (mm/yy)	STATUS
Farm Services Agency	Conservation Reserve Program	Continuous Signup for buffers	1985	An excellent program for ag producers
Natural Resources Conservation Service	Environmental Quality Incentives Program	State priority items	1997	Yearly signup for ag producers
Natural Resources Conservation Service	Wetland Reserve Program	On-going wetland restoration program	1996	Has not been very successful in NW GA
Soil and Water Conservation Commission	Partners for Fish and Wildlife	Establish buffers, fence out creeks, alternate livestock water establishment	1987	Available to private landowners
Upper Ocmulgee RC&D	Competitive 319	State-wide buffer grant, long term contract	2000	Available to private landowners

Additional recommended regulatory or other measures which should be implemented to reduce the loads of the TMDL parameter

ENTITY/ORGANIZATION RESPONSIBLE	NAME OF PROPOSED REGULATION/ORDINANCE/ OTHER	DESCRIPTION	ENACTED OR PROJECTED DATE (mm/yy)	STATUS
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Farm Services Agency	Conservation Reserve Enhanced Program (CREP)	A state-federal conservation partnership to address significant water quality, soil erosion, and wildlife habitat issues related to agricultural use.	Refinement of CRP 1986	No current proposal for state of Georgia

III. SCHEDULE FOR IMPLEMENTING MANAGEMENT MEASURES OR OTHER CONTROL ACTIONS:

These must be implemented as expeditiously as practicable within five years of when the implementation plan is accepted by EPA.

IMPLEMENTATION ACTION	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
Form stakeholders group	X				
Organize implementation work with stakeholders and local officials to identify remedial measures and potential funding sources	X				
Identify sources of TMDL parameter	X	X			
Develop management programs to control runoff including identification and implementation of BMPs (Phase I):					
Agriculture	X	X	X		
Forestry	X	X	X		
Urban	X	X	X		
Mining					
Organize and implement education and outreach programs	X	X	X	X	
Detect and eliminate illicit discharges	X	X	X	X	
Evaluate additional management controls needed			X	X	
Monitor and evaluate results	X	X	X	X	
Reassess TMDL allocations			X	X	
Provide periodic status reports on implementation of remedial activities	X	X	X	X	
If needed, begin process for Phase II (next 5 years) and subsequent phases				X	

IV. PROJECTED ATTAINMENT DATE AND BASIS FOR THAT PROJECTION:

The projected attainment date is 10 years from acceptance of the implementation plan by EPA.

V. MEASURABLE MILESTONES:

- Number of management controls and activities already implemented 2
- Number of management controls and activities proposed in five-year work program 4
- Number of management controls and activities actually implemented in five-year work period _____(to be completed after 5 years)
- Stream sampled to identify areas of concern See monitoring plan
- Other _____
- Other _____

VI. MONITORING PLAN:

Monitoring data that placed stream on 303(d) list will be provided if requested.

Describe previous or current sampling activities or other surveys to detect sources or to measure effectiveness of management measures or other controls.

ORGANIZATION	TIME FRAME	PARAMETERS	PURPOSE	STATUS
Chattooga County/Town of Trion	Monthly	Fecal coliform	Monitoring	started

Describe any planned or proposed sampling activities or other surveys. (Scheduled EPD sampling can be found in the Basin Planning document.)

ORGANIZATION	TIME FRAME	PARAMETERS	PURPOSE	STATUS
Chattooga County/Town of Trion	Monthly	Fecal coliform	Monitoring	started
EPD	2001-2002	Various	Basin planning	2001-2002

VII. CRITERIA TO DETERMINE WHETHER SUBSTANTIAL PROGRESS IS BEING MADE:

- % Concentration or load change (monitoring program)
- Categorical change in classification of the stream (delisting the stream is the goal)
- Regulatory controls or activities installed (ordinances, laws)
- Best management practices installed (agricultural, forestry, urban)

COMMENTS

See attached Narrative Plan and Monitoring Plan.

Name/Organization **Georgia Soil and Water Conservation Commission**
 Address **700 E. 2nd Avenue, Suite J**
 City/State/Zip **Rome, GA 30161**
 Contact **Keith Gilmer**
 Telephone **(706) 295-6131**
 E-mail

Name/Organization **Georgia Cooperative Extension Service**
 Address **10011 Commerce St.**
 City/State/Zip **Summerville, GA 30747**
 Contact **Norman Edwards**
 Telephone **(706) 857-0744**
 E-mail

Name/Organization **Limestone Valley RC&D**
 Address **125 Red Bud Road, Suite 7**
 City/State/Zip **Calhoun, GA 30701**
 Contact **Doug Cabe**
 Telephone **(706) 625-7044**
 E-mail

Name/Organization **U. S. Forest Service**
 Address **P.O. Box 465**
 City/State/Zip **LaFayette, GA 30728**
 Contact **Scott Layfield**
 Telephone **(706) 638-1085**
 E-mail

Name/Organization **Chattooga Co. Young Farmers**
 Address **P.O. Box 304**
 City/State/Zip **Lyerly, GA 30730**
 Contact **Keith Mosley**
 Telephone **(706) 857-3525**
 E-mail **kmoseley@chattooga.k12.ga.us**

Name/Organization **Farm Bureau of Chattooga County**
 Address **9921 Commerce Street**
 City/State/Zip **Summerville, GA 30747**
 Contact **Wayne Hurley**
 Telephone **(706) 857-3214**
 E-mail

Name/Organization **Chattooga Co. Environmental Health Department**
 Address **10 Farrar Drive**
 City/State/Zip **Summerville, GA 30747**
 Contact **Mike Pitts**
 Telephone **(706) 857-3471**
 E-mail

Name/Organization **Georgia Forestry Commission**
 Address **207 Foster Blvd**
 City/State/Zip **LaFayette, GA 30728**
 Contact **Lee Kelly**
 Telephone **(706) 638-5557**
 E-mail

Name/Organization **USDA-Natural Resources Conservation Service**
 Address **1401 Dean Street, Suite I**
 City/State/Zip **Rome, GA 30161**
 Contact **Sheri Teems**
 Telephone **(706) 291-5651**
 E-mail

Name/Organization **USDA- Farm Services Agency**
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Name/Organization **Charles Logan**
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Name/Organization **Chattooga County Water District no. 1**
 Address **Old Hwy 27**
 City/State/Zip **Trion, GA 30753**
 Contact **Lance Stowe**
 Telephone **(706) 734-2827**
 E-mail

Name/Organization **Georgia Public Interest Research Group**
 Address **1447 Peachtree Street, Suite 304**
 City/State/Zip **Atlanta, GA 30309**
 Contact **Maggie Kelly**
 Telephone **(404) 892-3573**
 E-mail **mkpirg@juno.com**

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Name/Organization **Karen and Denny Bandy**
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 City/State/Zip **Trion, GA 30753**
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 Telephone **(706) 734-7269**
 E-mail **dbandy@alltel.net**

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Name/Organization
 Address
 City/State/Zip
 Contact
 Telephone
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CHAPPELL CREEK TMDL IMPLEMENTATION PLAN

MONITORING PLAN

Initial monitoring results from samples collected the first week in February, 2001 indicate that monitoring can be concentrated on Chappell Creek below the bridge on U.S. 27 and the tributaries that impact the creek below that intersection. The initial plan will be to collect samples at or upstream from the U.S. 27 bridge to monitor for continued low levels of fecal coliform. If levels are seen to increase, then random sampling up the creek can be used to define the origin of the pollutant.

Other sampling locations below outfalls of tributaries will be established to determine sources of fecal coliform. These locations will be at the Hall's Valley Road bridge and at the outflow from the residential area along Mountain View Road. The final location will be at the First Street bridge. Personnel from Trion Water Department will collect the samples, which will be analyzed at the Town of Trion WPCP. Samples will be collected every other week at all locations and during high flows. A minimum of eight samples will be collected each month. Where an individual sample exceeds the standard for the 30-day geometric mean, additional samples will be collected to determine if the standard has been exceeded.

The monitoring program will be kept in place until Chappell Creek is no longer included in the state 303(d) list.